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## **AMENDMENTS TO THE CLAIMS**

Please amend claims 1, 5, 11, 14-16, 56 and 57, and cancel claims 9 and 10 such that the status of the claims is as follows:

1.(Currently amended)A chest wall oscillation method, comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with

a chest of a patient to apply applying an oscillating compressive force
to the [[a]] chest of a patient, the oscillating compressive force having
a steady state force component and an oscillating force component;
and

supplying air pressure to a mouthpiece in communication with a mouth of a patient, the air pressure having an oscillating air pressure component and a steady state air pressure component greater than atmospheric pressure, the steady state air pressure component having a direction and a magnitude tending to counteract the steady state force component of the oscillating compressive force.

- 2.(Previously presented)The method of claim 1 wherein the steady state air pressure component at least approximately equals a mean pressure exerted on the chest of the patient by the oscillating compressive force.
- 3.(Previously presented)The method of claim 1 wherein the mouthpiece includes a mouthpiece chamber having a mouth port for communication with the patient's mouth, an outlet port, and an air supply port, wherein the supplying air pressure to the mouthpiece is through the air supply port.
- 4.(Previously presented)The method of claim 3 wherein the supplying air pressure maintains a flow of air through the air supply port and out of the outlet port.

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5.(Currently amended) A chest wall oscillation method, comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with

a chest of a patient to apply applying an oscillating compressive force
to the [[a]] chest of a patient, the oscillating compressive force having
a steady state force component and an oscillating force component;
and

supplying air pressure to a mouthpiece in communication with a mouth of the patient to provide a steady state air pressure component greater than atmospheric pressure which at least partially cancels the steady state force component and provide an oscillating air pressure component.

6.(Previously presented)The method of claim 5 wherein the steady state air pressure component at least approximately equals a mean pressure exerted on the chest of the patient by the oscillating compressive force.

7.(Previously presented)The method of claim 5 wherein the mouthpiece includes a mouthpiece chamber having a mouth port, an outlet port, and an air supply port, and the supplying air pressure to the mouthpiece is through the air supply port.

8.(Previously presented)The method of claim 5 wherein the supplying air pressure maintains a flow of air through the air supply port and out of the outlet port.

9-10.(Canceled)

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11.(Currently Amended)A chest wall oscillation method for removal of mucus from a lung of a patient, the method comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with

a chest of a patient to apply applying an oscillating compressive force

to the [[a]] chest of a patient; and

supplying air pressure to a mouthpiece with a steady state air pressure component greater than atmospheric pressure in a direction and a magnitude which tends to counteract a steady state force component of the oscillating compressive force.

12.(Previously presented) The method of claim 11 wherein the oscillating compressive force includes the steady state force component and an oscillating force component.

13.(Previously presented)The method of claim 11 wherein the air pressure includes an oscillating air pressure component.

14.(Currently amended)A chest wall oscillation method for removal of mucus from a lung of a patient, the method comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with a chest of a patient to apply applying an oscillating compressive force to the [[a]] chest of a patient to cause displacement of a chest cavity volume, the oscillating compressive force including a steady state force component and an oscillating force component; and

supplying air pressure to a mouth of the patient, the air pressure having an oscillating air pressure component and a steady state air pressure component greater than atmospheric pressure, the steady state air pressure component having a direction and a magnitude tending to



make the oscillating compressive force effective throughout each entire cycle.

15.(Currently amended)A method for removal of mucus from a lung of a patient, the method comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with

a chest of a patient to apply applying an oscillating compressive force
to the [[a]] chest of a patient;

supplying air pressure greater than atmospheric pressure to a mouthpiece positioned in a mouth of the patient; and

coordinating the applying the oscillating compressive force and the supplying air pressure to the mouthpiece to make the oscillating compressive force effective throughout each entire cycle to induce mucus movement.

16.(Currently amended)A chest wall oscillation method, comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with

a chest of a patient to apply applying an oscillating compressive force
to the [[a]] chest of a patient, the oscillating compressive force having
a steady state force component and an oscillating force component;
and

supplying an air pressure to a mouth of the patient, the air pressure having a steady state air pressure component greater than atmospheric pressure and an oscillating air pressure component, the steady state air pressure component opposing the steady state force component applied to the chest.

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17.(Previously presented)The method of claim 16 wherein the steady state air pressure component is substantially equal to the steady state force component.

18.(Previously presented) The method of claim 16 wherein the supplying the air pressure causes no perceived pressure from the steady state force component of the applying the oscillating compressive force.

19.(Previously presented) The method of claim 16 wherein the applying an oscillating compressive force causes a pressure on the chest and the supplying air pressure to the mouth reduces the pressure on the chest.

20.(Previously presented)The method of claim 16 wherein the supplying the air pressure reduces effort needed for the patient to breathe against the oscillating compressive force.

21.(Previously presented)The method of claim 16 wherein the steady state air pressure component is greater than the steady state force component.

22.(Previously presented)The method of claim 16 wherein the supplying the air pressure to the mouth causes an increase in volume of lungs of the patient.

23.(Previously presented) The method of claim 16 wherein the steady state air pressure component is greater than the steady state force component to cause an increase in volume of lungs of the patient.

24.(Previously presented)The method of claim 16 wherein the steady state air pressure component is less than the steady state force component.



25.(Previously presented)The method of claim 16 wherein the supplying the air pressure to the mouth causes a decrease in volume of lungs of the patient.

26.(Previously presented) The method of claim 16 wherein the steady state air pressure component is less than the steady state force component to cause a decrease in volume of lungs of the patient.

27. (Previously presented) The method of claim 16 wherein supplying the air pressure provides a pressure bias in relation to atmospheric pressure.

28.(Previously presented)The method of claim 16 wherein the oscillating air pressure component is supplied in a synchronized relationship with the oscillating force component.

29.(Previously presented)The method of claim 28 wherein the supplying the air pressure enhances oscillations caused by the applying the oscillating compressive force.

30.(Previously presented)The method of claim 28 wherein the supplying the air pressure reduces oscillations caused by the applying the oscillating compressive force.

31.(Previously presented)The method of claim 28 wherein the supplying the air pressure substantially cancels oscillations caused by the oscillating compressive force.

32.(Previously presented)The method of claim 28 wherein the oscillating air pressure component exhibits a non-sinusoidal waveform.

33.(Previously presented)The method of claim 28 wherein the oscillating air pressure component produces a simulated cough.

34.(Previously presented) The method of claim 28 wherein the oscillating air pressure component causes an airflow out of the mouth to be substantially zero while simultaneously building up an airway pressure in the chest, followed by the airflow rapidly increasing out of the mouth.

35.(Previously presented) The method of claim 28 wherein the oscillating air pressure component causes a first airway flow rate while the patient is inspiring to be lower than a second airway flow rate while the patient is expiring, with the first airway flow rate and the second airway flow rate using equal volumes of air.

36.(Previously presented) The method of claim 16 wherein the supplying air pressure enhances the effectiveness of the applying the oscillating compressive force.

37.(Previously presented)The method of claim 16 wherein the supplying air pressure enhances the function of the applying oscillating compressive force.

38.(Previously presented)The method of claim 16 wherein the supplying air pressure causes an airflow in the chest is to be enhanced.

39.(Previously presented) The method of claim 16 wherein the supplying air pressure enhances effectiveness of the oscillating force component without increasing the oscillating compressive force.

40.(Previously presented) The method of claim 16 wherein the supplying the air pressure further comprises supplying the air pressure through a mouthpiece in communication with the mouth of the patient.

41.(Previously presented)The method of claim 40 wherein the mouthpiece includes a mouth port, an outlet port, and an air supply port.



42.(Previously presented)The method of claim 41 wherein the supplying the air pressure is through the air supply port to the outlet port and the mouth port.

43.(Previously presented)The method of claim 42 wherein a flow of air is maintained through the supply port.

44.(Previously presented) The method of claim 43 wherein the flow of air provides a continuous supply of fresh air for normal respiration.

45.(Previously presented)The method of claim 42 wherein a volume of air produced by tidal breathing of the patient moves air from the outlet port into lungs of the patient.

46.(Previously presented) The method of claim 41 wherein the outlet port is positioned at a distance from the mouthport so that humidified air which flows from the patient during outflow half cycles is returned to the patient during inflow half cycles.

47.(Previously presented)The method of claim 41 wherein the outlet port is about a distance from the mouth port that humidified air travels in a cycle of the oscillating air pressure component.

48.(Previously presented)The method of claim 41 wherein the mouthpiece is configured so that air from an outflow half cycle is returned to the patient during an inflow half cycle.

49.(Previously presented)The method of claim 41 wherein the outlet port is located at a distance from the mouth port that reduces drying out of airways of the patient.

50.(Previously presented) The method of claim 41 wherein the outlet port provides a drain for fluids.

51.(Previously presented)The method of claim 40 wherein the mouthpiece includes a mouthpiece chamber.

52.(Previously presented)The method of claim 51 wherein the mouthpiece chamber has a configuration which causes humidified air from the patient to be contained substantially within the chamber during a cycle of the oscillating air pressure component.

53.(Previously presented)The method of claim 51 wherein the mouthpiece chamber is configured to contain a volume of air of a cycle.

54.(Previously presented)The method of claim 51 wherein the mouthpiece chamber is configured so that air from an outflow half cycle is returned to the patient during an inflow half cycle.

55.(Previously presented)The method of claim 51 wherein the mouthpiece chamber reduces drying out of airways of the patient.

56.(Currently amended)A chest wall oscillation method, comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with a chest of a patient to apply applying an oscillating compressive force to the [[a]] chest of a patient, the oscillating compressive force having a steady state force component and an oscillating force component; supplying an air pressure to a mouth of the patient, the air pressure having a steady state air pressure component greater than atmospheric pressure and an oscillating air pressure component,

supplying the steady state air pressure component in relation to the steady state force component applied to the chest; and



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supplying the oscillating air pressure component in a synchronized relationship with the oscillating force component.

57.(Currently amended)A chest wall oscillation method, comprising:

supplying an oscillating air pressure to an inflatable bladder in contact with

a chest of a patient to apply applying an oscillating compressive force
to the [[a]] chest of a patient, the oscillating compressive force having
a steady state force component and an oscillating force component;
supplying a steady state air pressure component greater than atmospheric
pressure to a mouth of the patient in relation to the steady state force
component applied to the chest; and

supplying an oscillating air pressure component to the mouth of the patient in a synchronized relationship with the oscillating force component.